506795125 07/30/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6841944

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PETER HOU	08/12/2020
GEORGE EAPEN	09/17/2020
JUNYU SHEN	08/20/2020
KUNJ DESAI	09/10/2020
PETER MCLAREN	08/12/2020

RECEIVING PARTY DATA

Name:	HUGHES NETWORK SYSTEMS, LLC
Street Address:	11717 EXPLORATION LANE
City:	GERMANTOWN
State/Country:	MARYLAND
Postal Code:	20876

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17390686

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 2025599159

Email: docketing@novotechip.com

Correspondent Name: NOVOTECHIP INTERNATIONAL PLLC Address Line 1: 1717 PENNSYLVANIA AVENUE, NW

Address Line 2: SUITE #1025

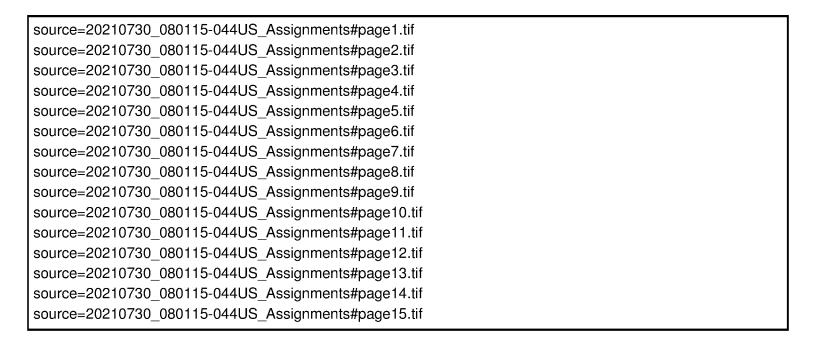
Address Line 4: WASHINGTON, UNITED STATES 20006

ATTORNEY DOCKET NUMBER:	080115-044US
NAME OF SUBMITTER:	JEFFREY S. KING
SIGNATURE:	/Jeffrey S. King/
DATE SIGNED:	07/30/2021
	•

Total Attachments: 15

PATENT REEL: 057041 FRAME: 0098

506795125



PATENT REEL: 057041 FRAME: 0099

WHEREAS, **Peter Hou**, residing at 14500 Falling Leaf Dr., Gaithersburg, MD 20878, US, **Junyu Shen**, residing at 20709-E Crystal Hill Circle, Germantown, MD 20874, US, **George Eapen**, 13905 Dairy Farm Dr., Boyds, MD 20841, US, **Kunj Desai** 11815 Skylark Rd., Clarksburg, MD 20871, US and **Peter Mclaren**, 8200 Climbing Fern Court, Bowie, MD 20715, US (hereinafter, singularly and collectively "Assignor") has solely and/or have jointly (as appropriate) invented and/or discovered certain new and useful invention, process, machine, manufacture, or composition of matter, or any new and useful improvement in an invention as described in United States Provisional Application No. 63/059,949 entitled "Integrated Polarization Converter and Feed Horn" having been filed in and/or with the United States Patent and Trademark Office on July 31, 2020, and which is further identified by the EchoStar Docket No. set forth above (hereinafter, the "Invention"); and

WHEREAS, Hughes Network Systems, LLC, a limited liability company organized and existing under the laws of the State of Delaware, United States of America and having a principal place of business of 11717 Exploration Lane, Germantown, Maryland 20876 (hereinafter, the "Assignee") desires to acquire all rights, title and interest in and to the Invention, including, but not limited to, all rights, title and interest in and to past, present and future damages, injunctive relief and to any and all other additional rights, title, interest, relief and/or remedies granted by any legislative, judicial, quasi-judicial, administrative or other body, or otherwise; and

WHEREAS, Assignor, to the extent they own any right, title and interest in and to the Invention are desirous of assigning any and all such rights, title and/or interest to Assignee.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby sells, assigns, transfers and sets over unto Assignee and its legal representatives, successor and assigns, the entire right, title and interest, including any all rights in and/or to past, present and future damages, injunctive relief and/or any other remedy and relief granted by a legislative, judicial, quasi-judicial or administrative body, in and to said Invention, said application, for any and all non-provisional, national, international, foreign, and regional applications corresponding and/or claiming priority thereto, any divisions, continuations, continuation-in-parts, reissues, reexaminations, renewals, and extensions thereof, and the Letters Patent, both foreign and domestic, that may or shall issue thereon, and does request the Commissioner of Patents to issue said Letters Patent to the Assignee, consistent with the terms of this agreement.

Assignor hereby authorizes Assignee to insert in this instrument the filing date and Application Serial Number in the above fields if not already present at the time of execution of this instrument.

Assignor hereby declares that he/she is the sole inventor (if only one inventor is named herein) or an original, first and joint inventor (if plural inventors are named herein) of the Invention. Upon said consideration, Assignor hereby covenants and agrees with Assignee that they will not execute any writing or do any act whatsoever conflicting with these presents, and agrees that, when

PATENT REEL: 057041 FRAME: 0100

Assignor agrees that he/she will communicate to Assignee or its representatives any facts known to Assignor respecting said inventions within a reasonable time of discovering or coming into possession of the same.

Assignor authorizes and empowers Assignee, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in Assignor's name, in any and all countries to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

Assignor hereby consents that a copy of this Assignment shall be deemed a full legal and formal equivalent of any assignment, consents to file the same or like document which may be required in any country for any purpose and more particularly in proof of the right of Assignee or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

Assignor covenants with Assignee, its successors, assigns, legal representatives, and nominees, that to the best of Assignor's knowledge the right, title and interest herein conveyed are free and clear of any encumbrance, and that Assignor has the full right to convey the same as herein expressed.

This Agreement and Assignment supersedes all other assignments, agreements and addendums related to the above-identified application.

After this Assignment has been recorded, please return it to:

Attn: Cory Myers
Legal Department

Hughes Network Systems, LLC

11717 Exploration Lane

Germantown, Maryland 20876

SOLE OR JOI	NT (Choose one)	
Inventor (1):	Peter Hou (Name)	(Signature in Full)
		8/12/2020 (Date)

Assignee: Cory Lamont Myers (Name)

(Signature in Full)

(Date)

Cory Lamont Myers, Intellectual Property Counsel, of Hughes Network Systems, LLC a Delaware limited liability company, on behalf of the limited liability company.

WHEREAS, Peter Hou, residing at 14500 Falling Leaf Dr., Gaithersburg, MD 20878, US, Junyu Shen, residing at 20709-E Crystal Hill Circle, Germantown, MD 20874, US, George Eapen, 13905 Dairy Farm Dr., Boyds, MD 20841, US, Kunj Desai 11815 Skylark Rd., Clarksburg, MD 20871, US and Peter Melaren, 8200 Climbing Fern Court, Bowie, MD 20715, US (hereinafter, singularly and collectively "Assignor") has solely and/or have jointly (as appropriate) invented and/or discovered certain new and useful invention, process, machine, manufacture, or composition of matter, or any new and useful improvement in an invention as described in United States Provisional Application No. 63/059,949 entitled "Integrated Polarization Converter and Feed Horn" having been filed in and/or with the United States Patent and Trademark Office on July 31, 2020, and which is further identified by the EchoStar Docket No. set forth above (hereinafter, the "Invention"); and

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WHEREAS, Assignor, to the extent they own any right, title and interest in and to the Invention are desirous of assigning any and all such rights, title and/or interest to Assignee.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby sells, assigns, transfers and sets over unto Assignee and its legal representatives, successor and assigns, the entire right, title and interest, including any all rights in and/or to past, present and future damages, injunctive relief and/or any other remedy and relief granted by a legislative, judicial, quasi-judicial or administrative body, in and to said Invention, said application, for any and all non-provisional, national, international, foreign, and regional applications corresponding and/or claiming priority thereto, any divisions, continuations, continuation-in-parts, reissues, reexaminations, renewals, and extensions thereof, and the Letters Patent, both foreign and domestic, that may or shall issue thereon, and does request the Commissioner of Patents to issue said Letters Patent to the Assignee, consistent with the terms of this agreement.

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Page 1 of 3

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Assignor hereby consents that a copy of this Assignment shall be deemed a full legal and formal equivalent of any assignment, consents to file the same or like document which may be required in any country for any purpose and more particularly in proof of the right of Assignee or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

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Legal Department
Hughes Network Systems, LLC
11717 Exploration Lane
Germantown, Maryland 20876

SOLE OR JOINT (Choose one)	
Inventor (3): <u>George Eapen</u> (Name)	(Signature in Full)
÷	9/17/20 (Date)

Assignee:

Cory Lamont Myers

(Name)

(Signature in Full

(Date

Cory Lamont Myers, Intellectual Property Counsel, of Hughes Network Systems, LLC a Delaware limited liability company, on behalf of the limited liability company.

WHEREAS, Peter Hou, residing at 14500 Falling Leaf Dr., Gaithersburg, MD 20878, US, Junyu Shen, residing at 20709-E Crystal Hill Circle, Germantown, MD 20874, US, George Eapen, 13905 Dairy Farm Dr., Boyds, MD 20841, US, Kunj Desai 11815 Skylark Rd., Clarksburg, MD 20871, US and Peter Mclaren, 8200 Climbing Fern Court, Bowie, MD 20715, US (hereinafter, singularly and collectively "Assignor") has solely and/or have jointly (as appropriate) invented and/or discovered certain new and useful invention, process, machine, manufacture, or composition of matter, or any new and useful improvement in an invention as described in United States Provisional Application No. 63/059,949 entitled "Integrated Polarization Converter and Feed Horn" having been filed in and/or with the United States Patent and Trademark Office on July 31, 2020, and which is further identified by the EchoStar Docket No. set forth above (hereinafter, the "Invention"); and

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Page 1 of 3

PATENT REEL: 057041 FRAME: 0106

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Legal Department
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11717 Exploration Lane
Germantown, Maryland 20876

SOLE OR JOINT (Choose one)	
Inventor (2): <u>Junyu Shen</u> (Name)	(Signature in Full)
	7020 of 20
	(Date)

Assignee: Cory Lamont Myers (Signature in Full)

(Date)

Cory Lamont Myers, Intellectual Property Counsel, of Hughes Network Systems, LLC a Delaware limited liability company, on behalf of the limited liability company.

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Germantown, Maryland 20876

Page 2 of 3

ventor (4):	NT (Choose one) Kuni Dessi (Name)	Karj Leci- (Signature in Full)
		(Date) 10 2 2 2 2 2
Assignee:	Cory Lamont Myers (Name)	(Signature in Fully 4
	000) /3/2024	
3	t Myers, Intellectual Property ity company, on behalf of the I	Counsel, of Hughes Network Systems, LLC a Delaware limited liability company.

Page 3 of 3

WHEREAS, Peter Hou, residing at 14500 Falling Leaf Dr., Gaithersburg, MD 20878, US, Junyu Shen, residing at 20709-E Crystal Hill Circle, Germantown, MD 20874, US, George Eapen, 13905 Dairy Farm Dr., Boyds, MD 20841, US, Kunj Desai 11815 Skylark Rd., Clarksburg, MD 20871, US and Peter Mclaren, 8200 Climbing Fern Court, Bowie, MD 20715, US (hereinafter, singularly and collectively "Assignor") has solely and/or have jointly (as appropriate) invented and/or discovered certain new and useful invention, process, machine, manufacture, or composition of matter, or any new and useful improvement in an invention as described in United States Provisional Application No. 63/059,949 entitled "Integrated Polarization Converter and Feed Horn" having been filed in and/or with the United States Patent and Trademark Office on July 31, 2020, and which is further identified by the EchoStar Docket No. set forth above (hereinafter, the "Invention"); and

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Attn:

Cory Myers Legal Department Hughes Network Systems, LLC 11717 Exploration Lane Germantown, Maryland 20876

SOLE OR JOINT (Choose one)			
Inventor (5):	Peter Mclaren (Name)	<u>PR</u> <u>M. Zavan</u> (Signature in Full)	

Assignee: Cory Lamont Myers (Name)

Cory Lamont Myers, Intellectual Property Counsel, of Hughes Network Systems, LLC a Delaware limited liability company, on behalf of the limited liability company.

(Signature in Fyll)